

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/071,174A
Source: 1Fw16
Date Processed by STIC: 3/25/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 03/25/2005

PATENT APPLICATION: US/10/071,174A

TIME: 07:52:24

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt

Output Set: N:\CRF4\03252005\J071174A.raw

THE

3 <110> APPLICANT: The Burnham Institute
 4 Reed, John C.
 5 Ke, Ning
 6 Adam, Godzik

8 <120> TITLE OF INVENTION: APOPTOSIS MODULATOR BCL-B AND METHODS FOR MAKING AND USING

9 SAME

11 <130> FILE REFERENCE: 8014-014-US

C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/071,174A

14 <141> CURRENT FILING DATE: 2002-02-07

16 <150> PRIOR APPLICATION NUMBER: 60/267,166

17 <151> PRIOR FILING DATE: 2001-02-07

19 <160> NUMBER OF SEQ ID NOS: 37

21 <170> SOFTWARE: PatentIn version 3.3

23 <210> SEQ ID NO: 1

24 <211> LENGTH: 887

25 <212> TYPE: DNA

26 <213> ORGANISM: Homo sapiens

28 <400> SEQUENCE: 1

29	cgggccaaga aaaccagcga aggcccggcc cccagcaga ggccggacca tggttgacca	60
31	ggtgcgggag cgcaccacca tggccgaccc gctgcgggag cgcaccgagc tgttgctggc	120
33	cgactacctg gggctactgcg cccgggaacc cggcaccccc gagccggcgc catccacgcc	180
35	cgaggccgcc gtgctgcgct ccgcggccgc caggttacgg cagattcacc ggtccttttt	240
37	ctccgcctac ctgcggctacc ccgggaaccg cttcgagctg gtggcgctga tggcggattc	300
39	cgtgctctcc gacagccccg gccccacctg gggcagagtg gtgacgctcg tgaccttcgc	360
41	agggacgctg ctggagagag ggccgctggt gaccgcccgg tggagaagt ggggcttcca	420
43	gccgcggcta aaggagcagg agggcgacgt cgcccgggac tgccagcgcc tgggtggcctt	480
45	gctgagctcg cggctcatgg ggcagcaccg cgccctggct caggctcagg gcggctggga	540
47	tggcttttgt cacttcttca ggacccctt tccactggct ttttgagaa aacagctggt	600
49	ccaggctttt ctgtcatgct tgtaacaac agccttcatt tatctctgga cacgattatt	660
51	atgagtttta aaacttttaa cccgcttcta cctgcccac tgtgaccaac taaatgacag	720
53	atgtgtgaga acaagaactg agggaaagca ccttcccca cccagacgt ttttatctga	780
55	atgcatacaa ggagtcctga ggtggtgatt tggccagtgt ttaacttgt gacaagtact	840
57	caggtgtgag gacaagaatg caaatggctc ttccttgagt gaaagaa	887

60 <210> SEQ ID NO: 2

61 <211> LENGTH: 204

62 <212> TYPE: PRT

63 <213> ORGANISM: Homo sapiens

65 <400> SEQUENCE: 2

67	Met Val Asp Gln Leu Arg Glu Arg Thr Thr Met Ala Asp Pro Leu Arg
68	1 5 10 15
71	Glu Arg Thr Glu Leu Leu Leu Ala Asp Tyr Leu Gly Tyr Cys Ala Arg
72	20 25 30
75	Glu Pro Gly Thr Pro Glu Pro Ala Pro Ser Thr Pro Glu Ala Ala Val

RAW SEQUENCE LISTING

DATE: 03/25/2005

PATENT APPLICATION: US/10/071,174A

TIME: 07:52:24

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt

Output Set: N:\CRF4\03252005\J071174A.raw

```

76          35          40          45
79 Leu Arg Ser Ala Ala Ala Arg Leu Arg Gln Ile His Arg Ser Phe Phe
80      50          55          60
83 Ser Ala Tyr Leu Gly Tyr Pro Gly Asn Arg Phe Glu Leu Val Ala Leu
84 65          70          75          80
87 Met Ala Asp Ser Val Leu Ser Asp Ser Pro Gly Pro Thr Trp Gly Arg
88          85          90          95
91 Val Val Thr Leu Val Thr Phe Ala Gly Thr Leu Leu Glu Arg Gly Pro
92          100          105          110
95 Leu Val Thr Ala Arg Trp Lys Lys Trp Gly Phe Gln Pro Arg Leu Lys
96          115          120          125
99 Glu Gln Glu Gly Asp Val Ala Arg Asp Cys Gln Arg Leu Val Ala Leu
100          130          135          140
103 Leu Ser Ser Arg Leu Met Gly Gln His Arg Ala Trp Leu Gln Ala Gln
104 145          150          155          160
107 Gly Gly Trp Asp Gly Phe Cys His Phe Phe Arg Thr Pro Phe Pro Leu
108          165          170          175
111 Ala Phe Trp Arg Lys Gln Leu Val Gln Ala Phe Leu Ser Cys Leu Leu
112          180          185          190
115 Thr Thr Ala Phe Ile Tyr Leu Trp Thr Arg Leu Leu
116          195          200
119 <210> SEQ ID NO: 3
120 <211> LENGTH: 16
121 <212> TYPE: PRT
122 <213> ORGANISM: Homo sapiens
124 <400> SEQUENCE: 3
126 Val Leu Ser Asp Ser Pro Gly Pro Thr Trp Gly Arg Val Val Thr Leu
127 1          5          10          15
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 15
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 4
137 Ala Trp Leu Gln Ala Gln Gly Gly Trp Asp Gly Phe Cys His Phe
138 1          5          10          15
141 <210> SEQ ID NO: 5
142 <211> LENGTH: 15
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 5
148 Glu Ala Ala Val Leu Arg Ser Ala Ala Ala Arg Leu Arg Gln Ile
149 1          5          10          15
152 <210> SEQ ID NO: 6
153 <211> LENGTH: 21
154 <212> TYPE: PRT
155 <213> ORGANISM: Homo sapiens
157 <400> SEQUENCE: 6
159 Glu Arg Thr Glu Leu Leu Leu Ala Asp Tyr Leu Gly Tyr Cys Ala Arg
160 1          5          10          15

```

RAW SEQUENCE LISTING

DATE: 03/25/2005

PATENT APPLICATION: US/10/071,174A

TIME: 07:52:24

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt

Output Set: N:\CRF4\03252005\J071174A.raw

```

163 Glu Pro Gly Thr Pro
164      20
167 <210> SEQ ID NO: 7
168 <211> LENGTH: 23
169 <212> TYPE: DNA
170 <213> ORGANISM: Artificial Sequence
172 <220> FEATURE:
173 <223> OTHER INFORMATION: Primer
175 <400> SEQUENCE: 7
176 cgggcccaaga aaaccagcga agg                23
179 <210> SEQ ID NO: 8
180 <211> LENGTH: 24
181 <212> TYPE: DNA
182 <213> ORGANISM: Artificial Sequence
184 <220> FEATURE:
185 <223> OTHER INFORMATION: Primer
187 <400> SEQUENCE: 8
188 cactcaagga agagccattt gcat                24
191 <210> SEQ ID NO: 9
192 <211> LENGTH: 28
193 <212> TYPE: DNA
194 <213> ORGANISM: Artificial Sequence
196 <220> FEATURE:
197 <223> OTHER INFORMATION: Primer
199 <400> SEQUENCE: 9
200 ggaattcatg gttgaccagt tgcgggag                28
203 <210> SEQ ID NO: 10
204 <211> LENGTH: 30
205 <212> TYPE: DNA
206 <213> ORGANISM: Artificial Sequence
208 <220> FEATURE:
209 <223> OTHER INFORMATION: Primer
211 <400> SEQUENCE: 10
212 ccgctcgagt cataataatc gtgtccagag                30
215 <210> SEQ ID NO: 11
216 <211> LENGTH: 34
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Primer
223 <400> SEQUENCE: 11
224 ccgctcgagt catgttttct ccaaaaagcc agtg                34
227 <210> SEQ ID NO: 12
228 <211> LENGTH: 22
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
232 <220> FEATURE:
233 <223> OTHER INFORMATION: Primer
235 <400> SEQUENCE: 12

```

RAW SEQUENCE LISTING

DATE: 03/25/2005

PATENT APPLICATION: US/10/071,174A

TIME: 07:52:24

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt

Output Set: N:\CRF4\03252005\J071174A.raw

```

236 gtggtgacgc tcgtgacctt cg                                22
239 <210> SEQ ID NO: 13
240 <211> LENGTH: 24
241 <212> TYPE: PRT
242 <213> ORGANISM: Homo sapiens
244 <400> SEQUENCE: 13
246 Leu Arg Glu Arg Thr Glu Leu Leu Leu Ala Asp Tyr Leu Gly Tyr Cys
247 1          5          10          15
250 Ala Arg Glu Pro Gly Thr Pro Glu
251          20
254 <210> SEQ ID NO: 14
255 <211> LENGTH: 24
256 <212> TYPE: PRT
257 <213> ORGANISM: murine sp.
259 <400> SEQUENCE: 14
261 Leu His Glu Arg Thr Arg Arg Leu Leu Ser Asp Tyr Ile Phe Phe Cys
262 1          5          10          15
265 Ala Arg Glu Pro Asp Thr Pro Glu
266          20
269 <210> SEQ ID NO: 15
270 <211> LENGTH: 22
271 <212> TYPE: PRT
272 <213> ORGANISM: gallus sp.
274 <400> SEQUENCE: 15
276 Leu Lys Glu Glu Thr Ala Leu Leu Leu Glu Asp Tyr Phe Gln His Arg
277 1          5          10          15
280 Ala Gly Gly Ala Ala Leu
281          20
284 <210> SEQ ID NO: 16
285 <211> LENGTH: 24
286 <212> TYPE: PRT
287 <213> ORGANISM: Homo sapiens
289 <400> SEQUENCE: 16
291 Thr Gly Tyr Asp Asn Arg Glu Ile Val Met Lys Tyr Ile His Tyr Lys
292 1          5          10          15
295 Leu Ser Gln Arg Gly Tyr Glu Trp
296          20
299 <210> SEQ ID NO: 17
300 <211> LENGTH: 24
301 <212> TYPE: PRT
302 <213> ORGANISM: Homo sapiens
304 <400> SEQUENCE: 17
306 Met Ser Gln Ser Asn Arg Glu Leu Val Val Asp Phe Leu Ser Tyr Lys
307 1          5          10          15
310 Leu Ser Gln Lys Gly Tyr Ser Trp
311          20
314 <210> SEQ ID NO: 18
315 <211> LENGTH: 24
316 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

DATE: 03/25/2005

PATENT APPLICATION: US/10/071,174A

TIME: 07:52:24

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt

Output Set: N:\CRF4\03252005\J071174A.raw

```

317 <213> ORGANISM: Caenorhabditis elegans
319 <400> SEQUENCE: 18
321 Pro Arg Leu Asp Ile Glu Gly Phe Val Val Asp Tyr Phe Thr His Arg
322 1           5           10           15
325 Ile Arg Gln Asn Gly Met Glu Trp
326           20
329 <210> SEQ ID NO: 19
330 <211> LENGTH: 30
331 <212> TYPE: PRT
332 <213> ORGANISM: Homo sapiens
334 <400> SEQUENCE: 19
336 Met Ala Asp Ser Val Leu Ser Asp Ser Pro Gly Pro Thr Trp Gly Arg
337 1           5           10           15
340 Val Val Thr Leu Val Thr Phe Ala Gly Thr Leu Leu Glu Arg
341           20           25           30
344 <210> SEQ ID NO: 20
345 <211> LENGTH: 30
346 <212> TYPE: PRT
347 <213> ORGANISM: murine sp.
349 <400> SEQUENCE: 20
351 Met Ala Asp Lys Leu Leu Ser Lys Asp Gln Asp Phe Ser Trp Ser Gln
352 1           5           10           15
355 Leu Val Met Leu Leu Ala Phe Ala Gly Thr Leu Met Asn Gln
356           20           25           30
359 <210> SEQ ID NO: 21
360 <211> LENGTH: 30
361 <212> TYPE: PRT
362 <213> ORGANISM: gallus sp.
364 <400> SEQUENCE: 21
366 Lys Val Ala Ala Gln Leu Glu Thr Asp Gly Gly Leu Asn Trp Gly Arg
367 1           5           10           15
370 Leu Leu Ala Leu Val Val Phe Ala Gly Thr Leu Ala Ala Ala
371           20           25           30
374 <210> SEQ ID NO: 22
375 <211> LENGTH: 29
376 <212> TYPE: PRT
377 <213> ORGANISM: Homo sapiens
379 <400> SEQUENCE: 22
381 Thr Val Val Glu Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile
382 1           5           10           15
385 Val Ala Phe Phe Glu Phe Gly Gly Val Met Cys Val Glu
386           20           25
389 <210> SEQ ID NO: 23
390 <211> LENGTH: 29
391 <212> TYPE: PRT
392 <213> ORGANISM: Homo sapiens
394 <400> SEQUENCE: 23
396 Gln Val Val Asn Glu Leu Phe Arg Asp Gly Val Asn Trp Gly Arg Ile
397 1           5           10           15

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/25/2005
PATENT APPLICATION: US/10/071,174A TIME: 07:52:25

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt
Output Set: N:\CRF4\03252005\J071174A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:37; N Pos. 94

VERIFICATION SUMMARY

DATE: 03/25/2005

PATENT APPLICATION: US/10/071,174A

TIME: 07:52:25

Input Set : D:\Seq.ID.Prelim.Amend.031705.ST25.txt

Output Set: N:\CRF4\03252005\J071174A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:60